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FIG. 1

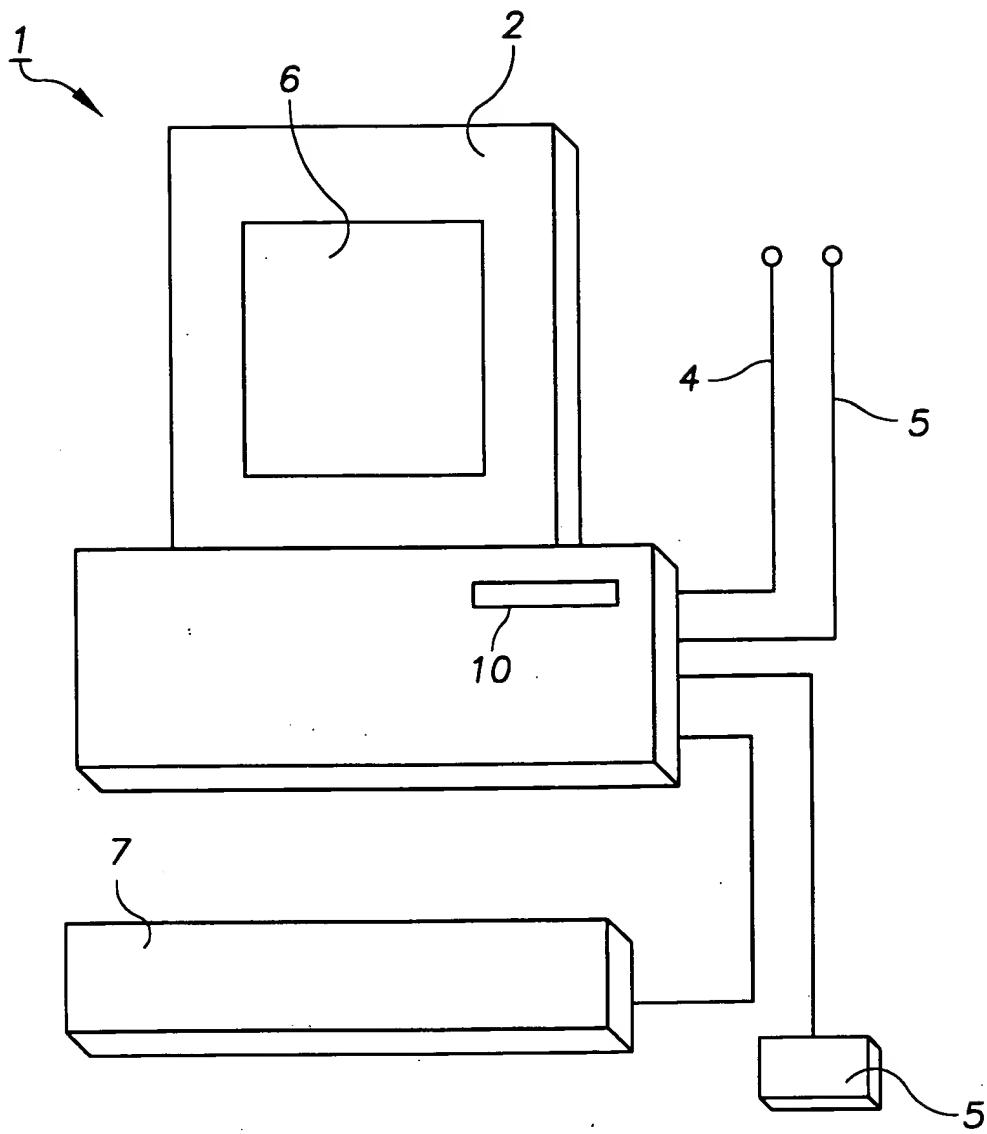
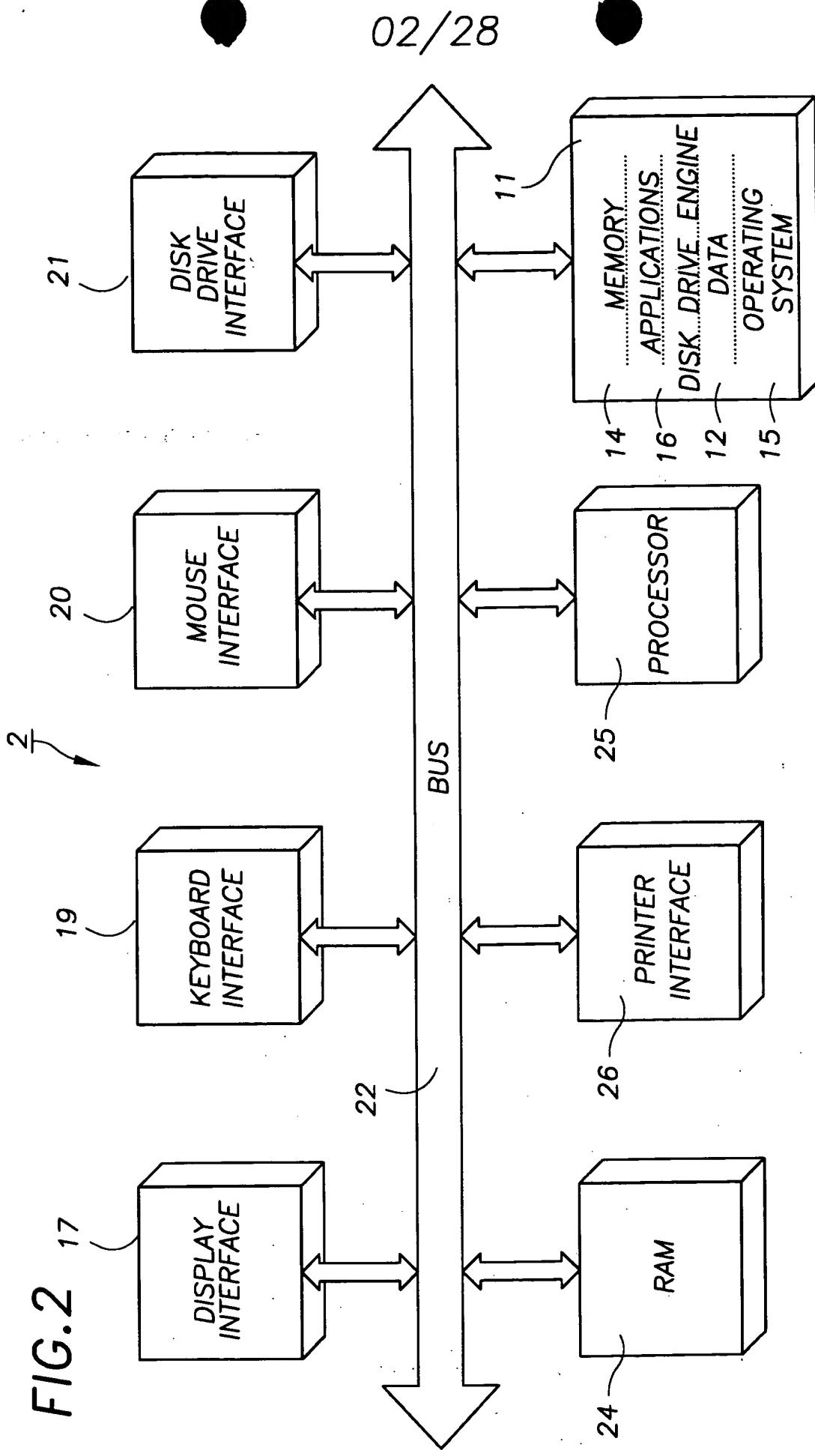
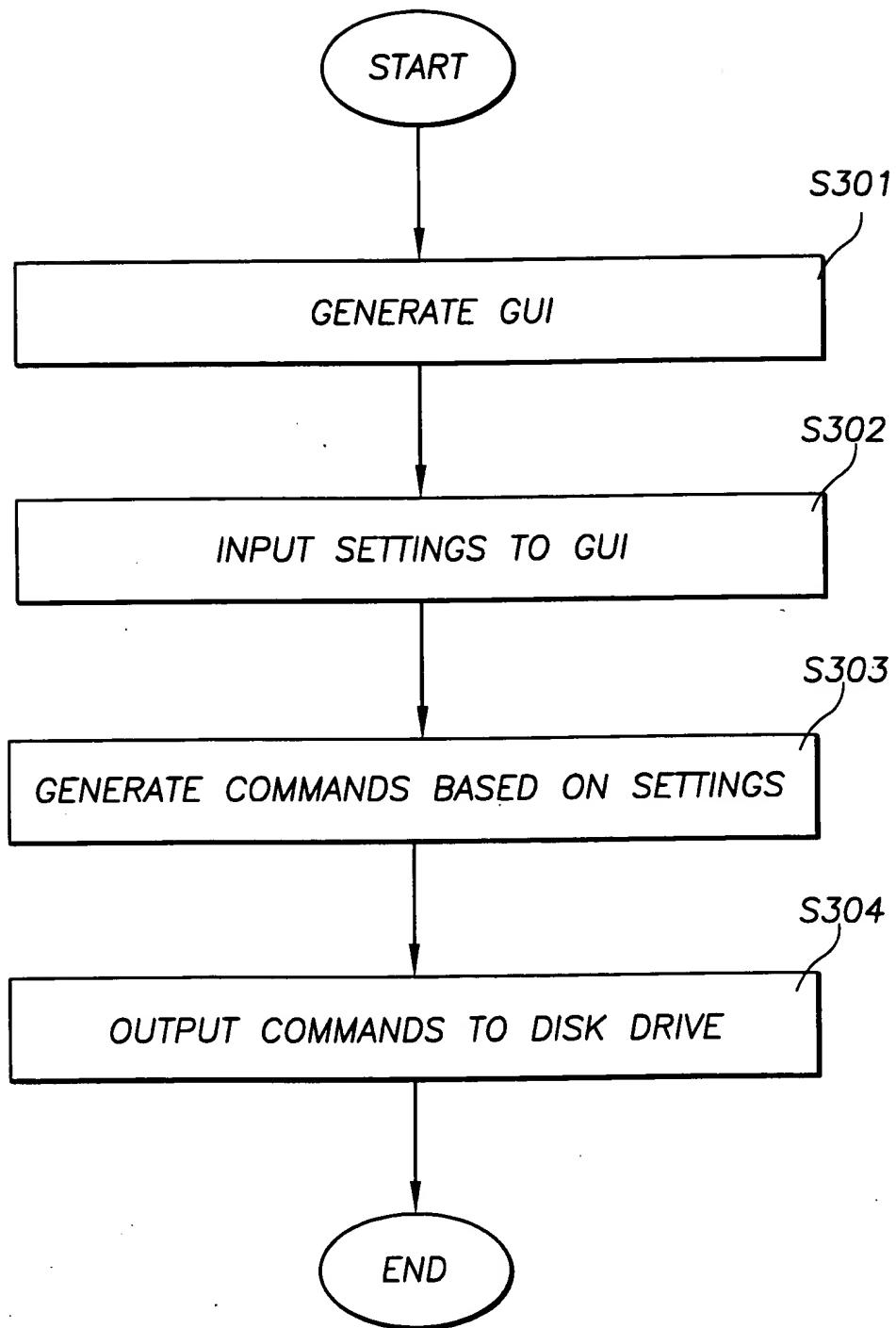


FIG. 2



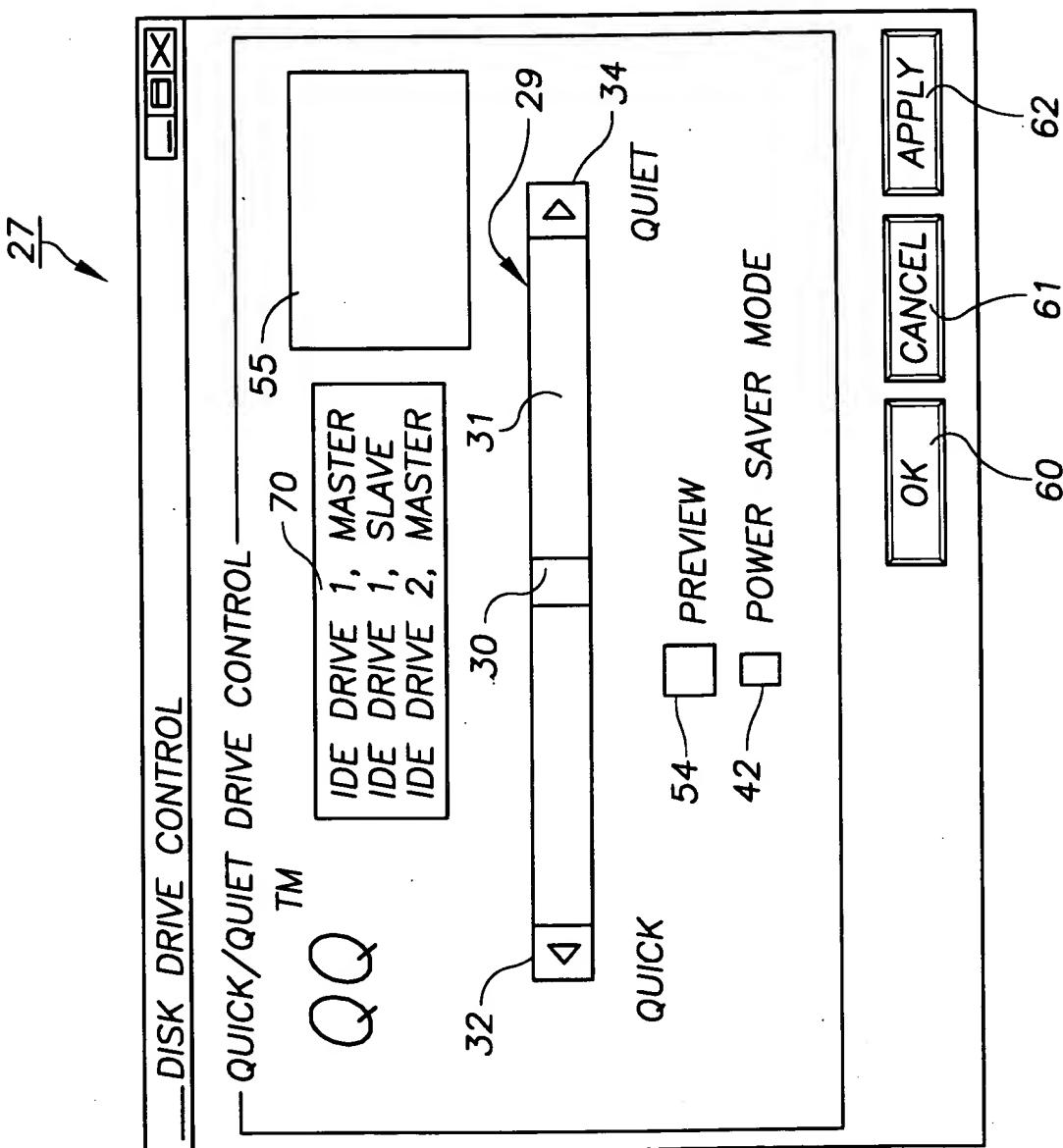
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FIG.3



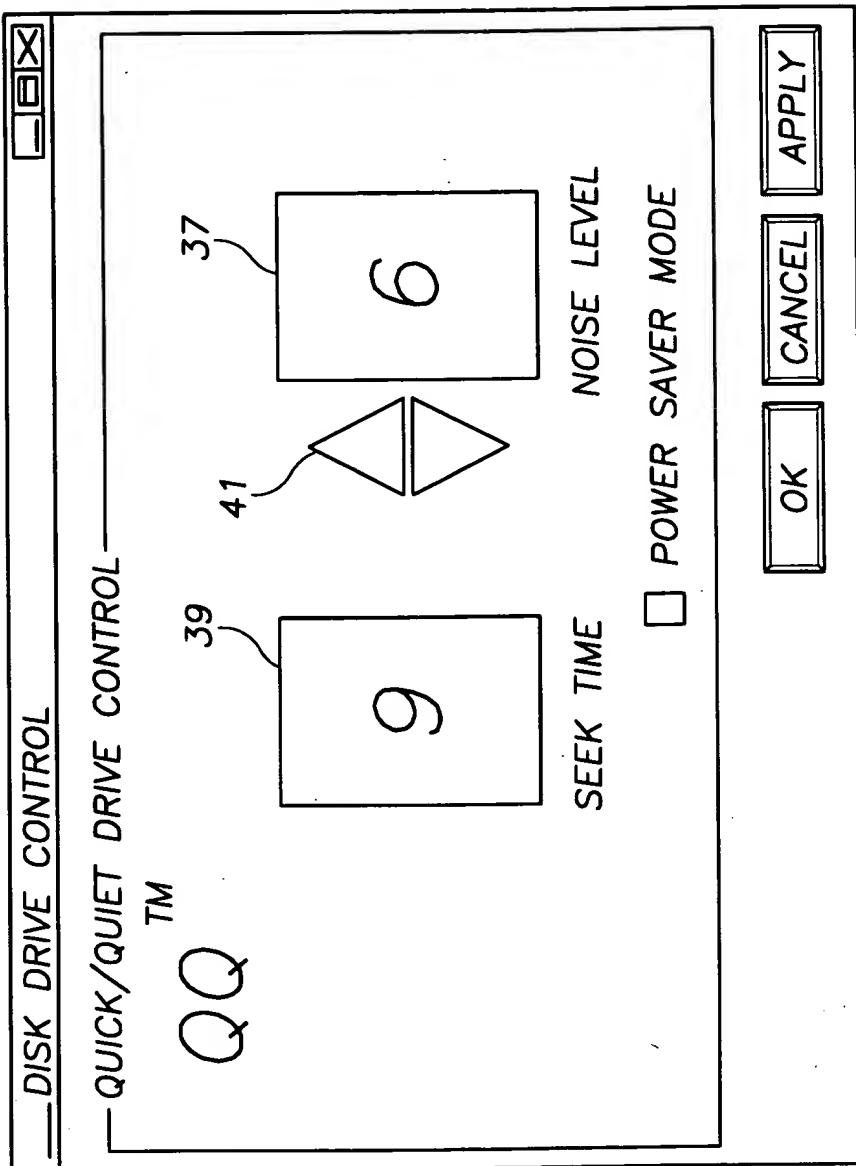
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FIG. 4



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FIG.5



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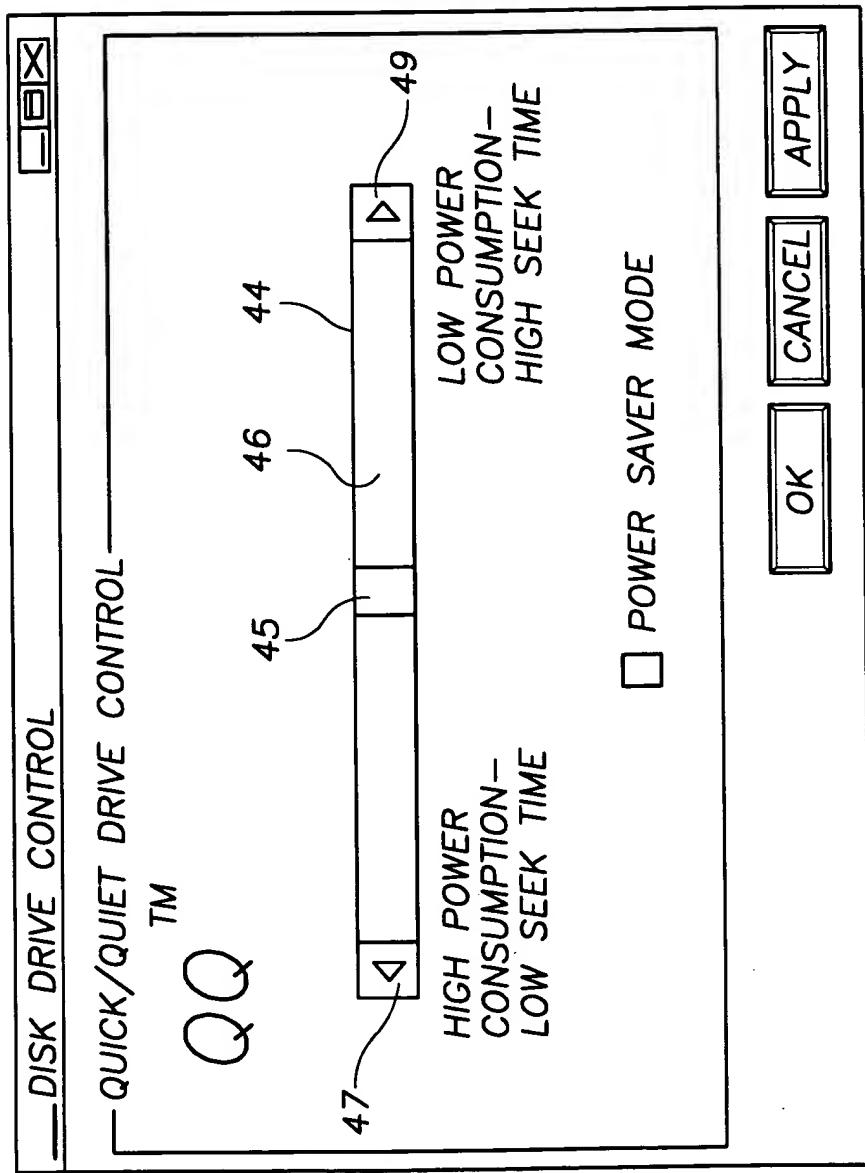
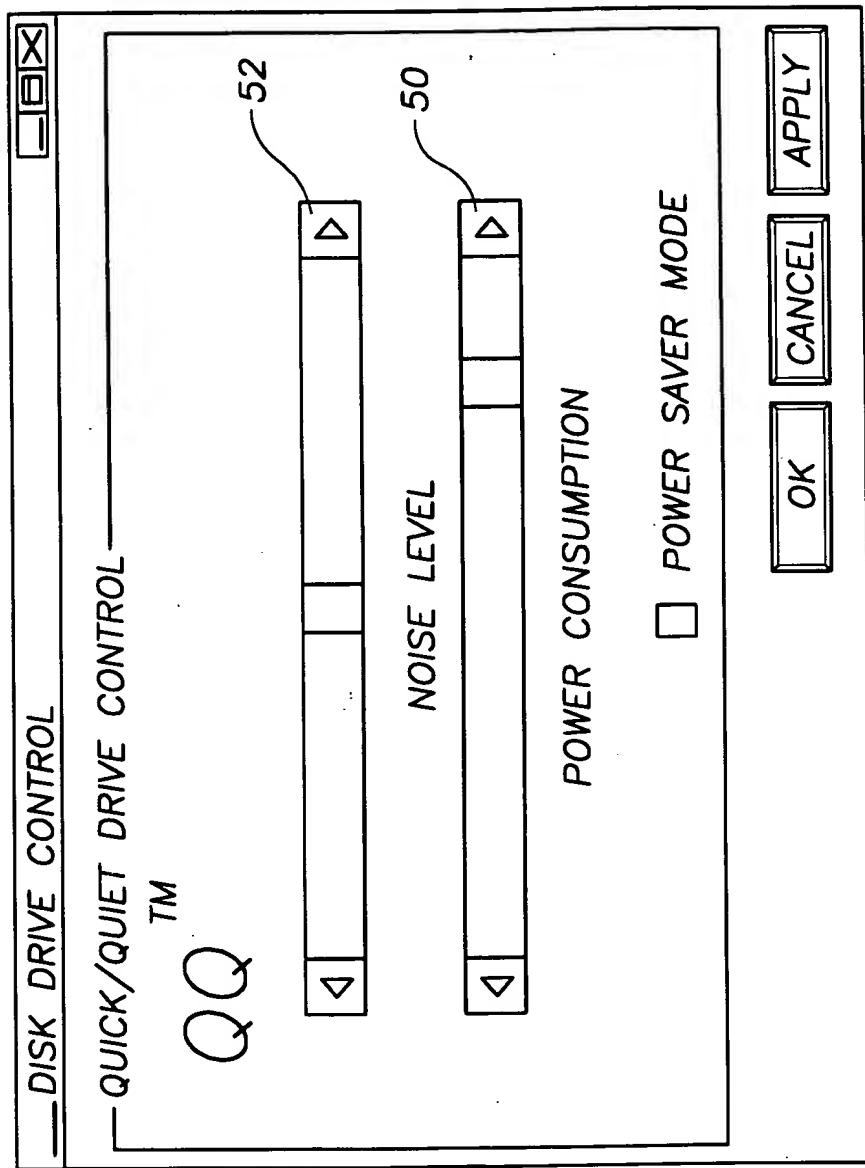


FIG. 6

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FIG. 7



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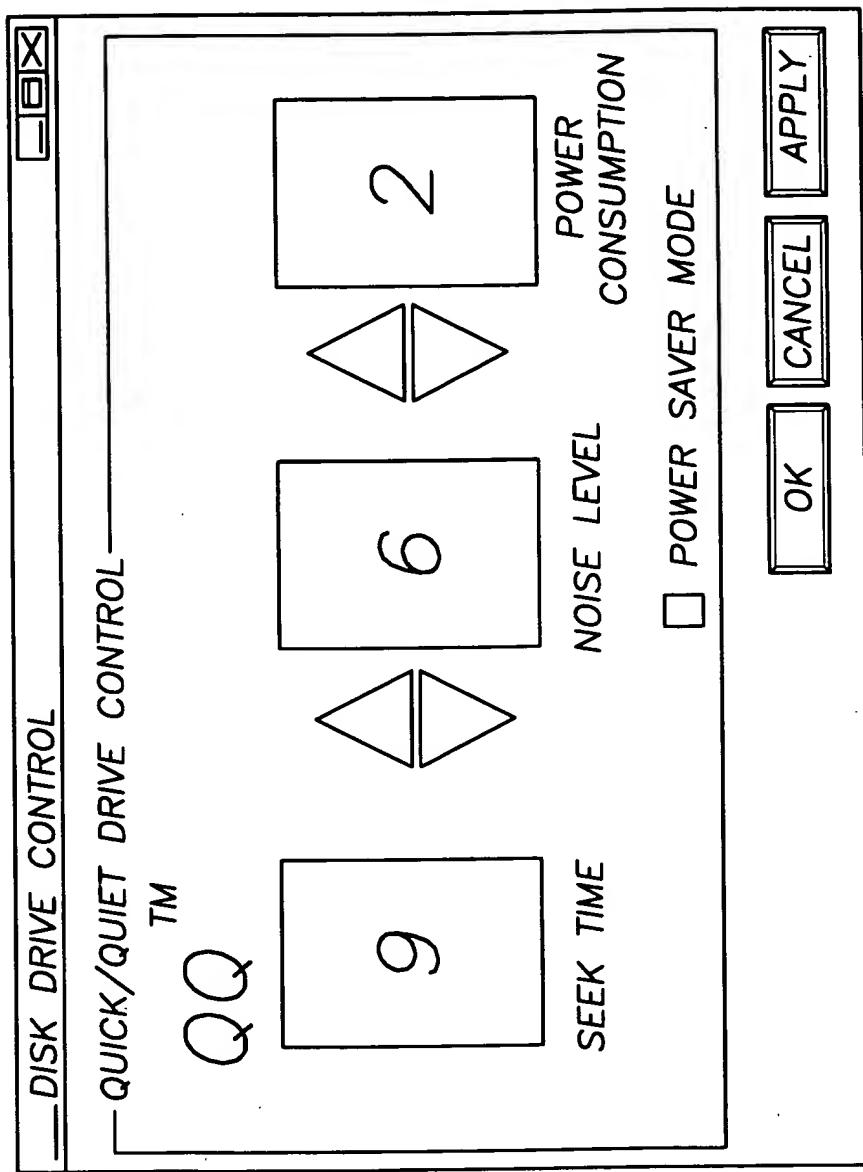


FIG.8

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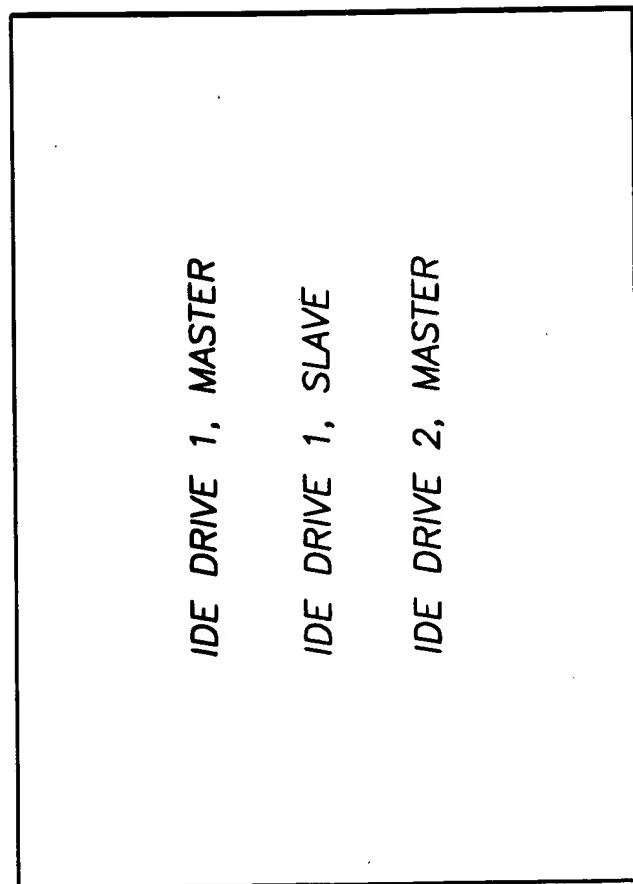


FIG. 9

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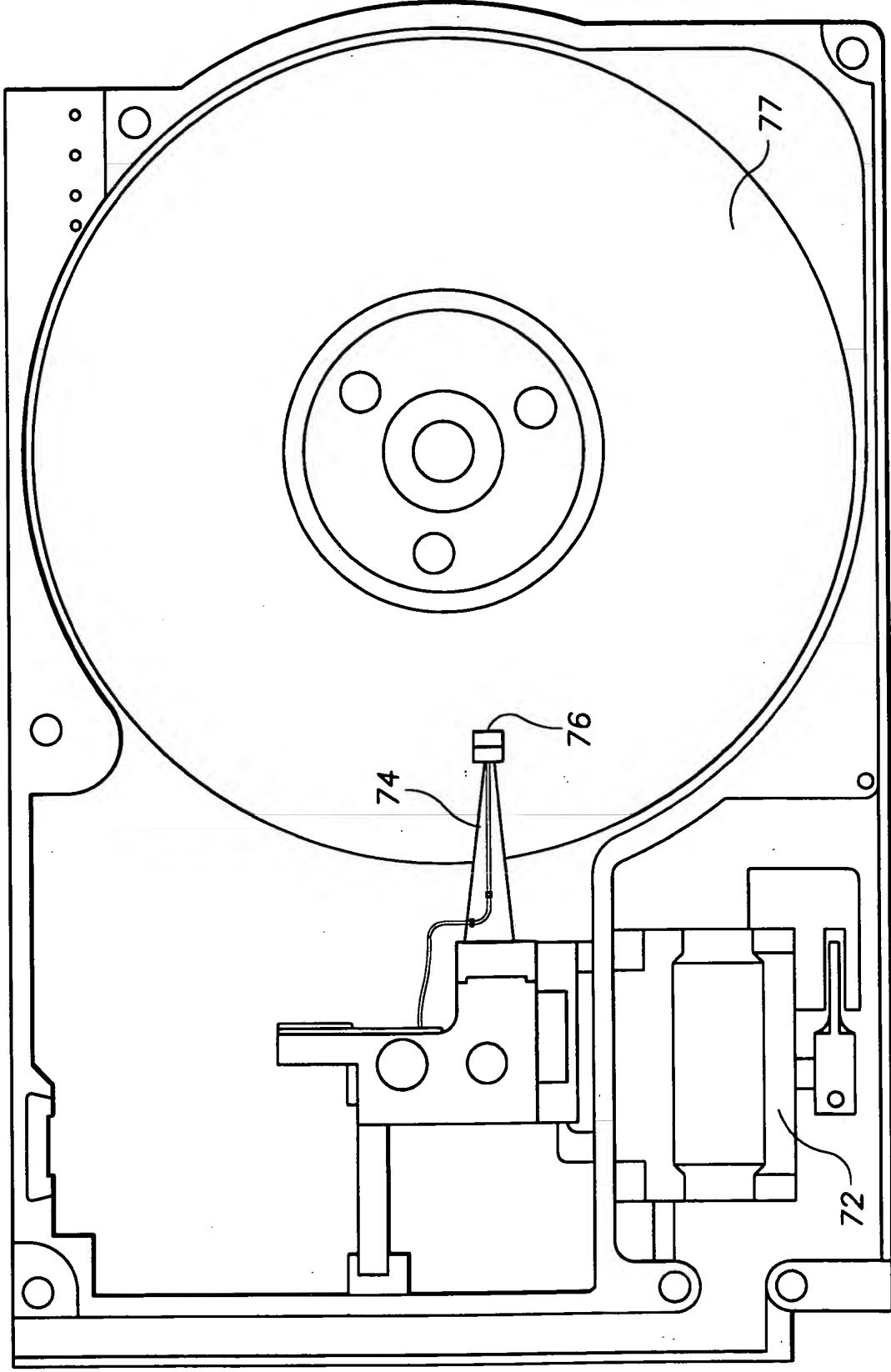


FIG. 10A

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FIG. 10B

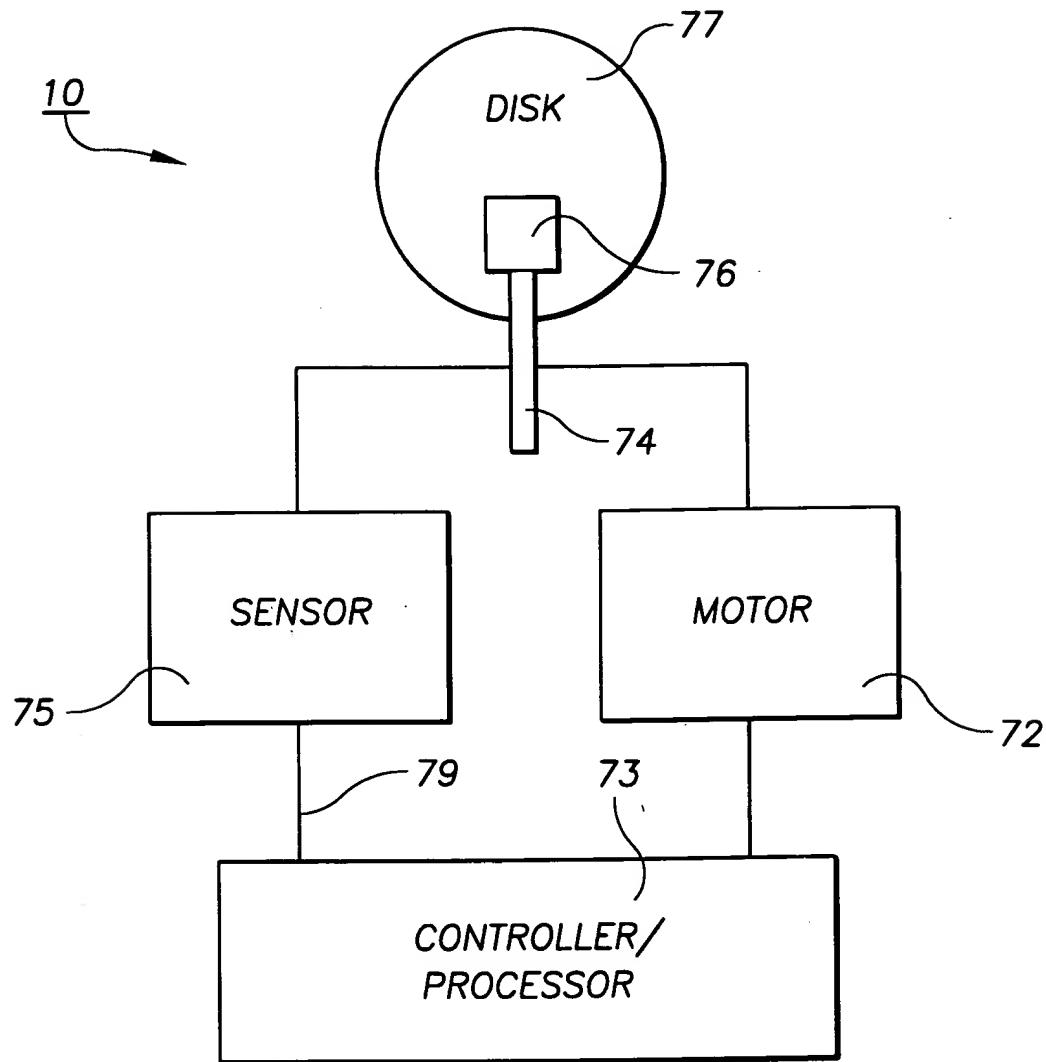


FIG. 11

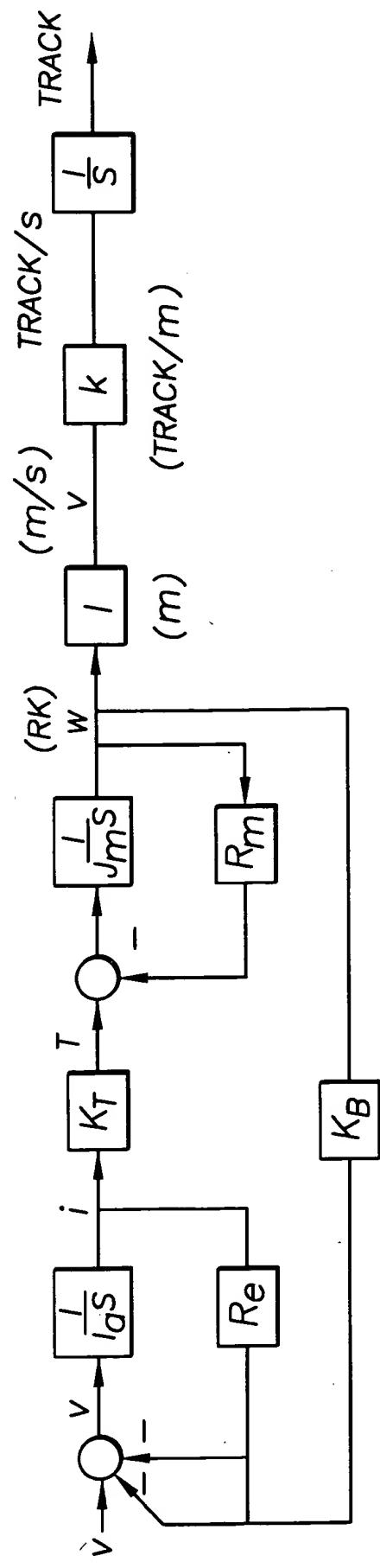


FIG. 12

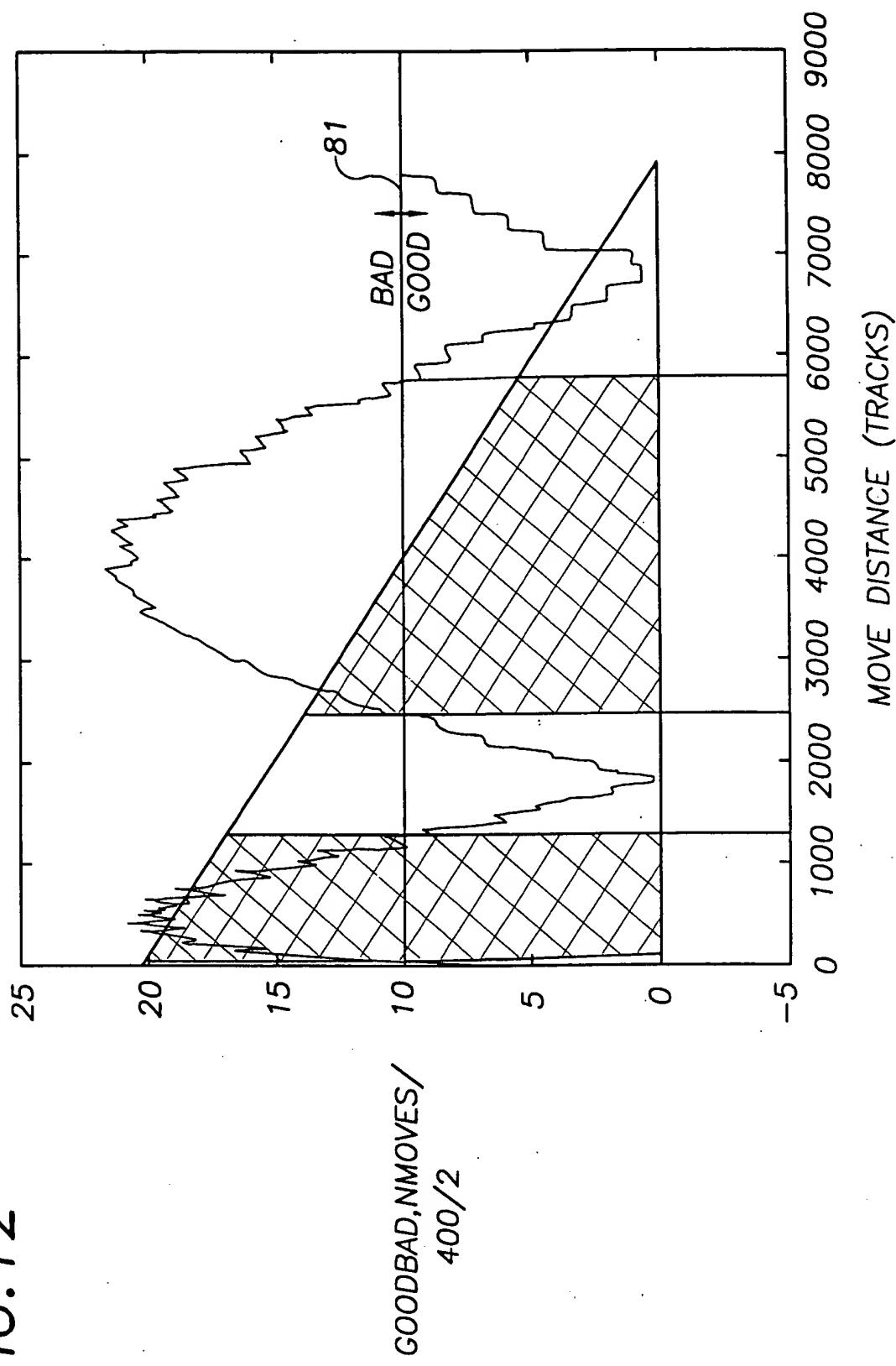


FIG. 13

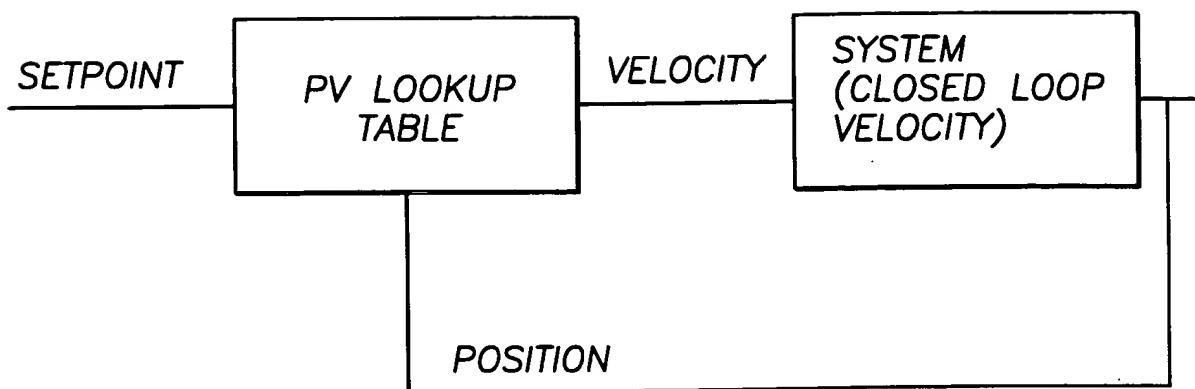
PRIOR ART

FIG. 14

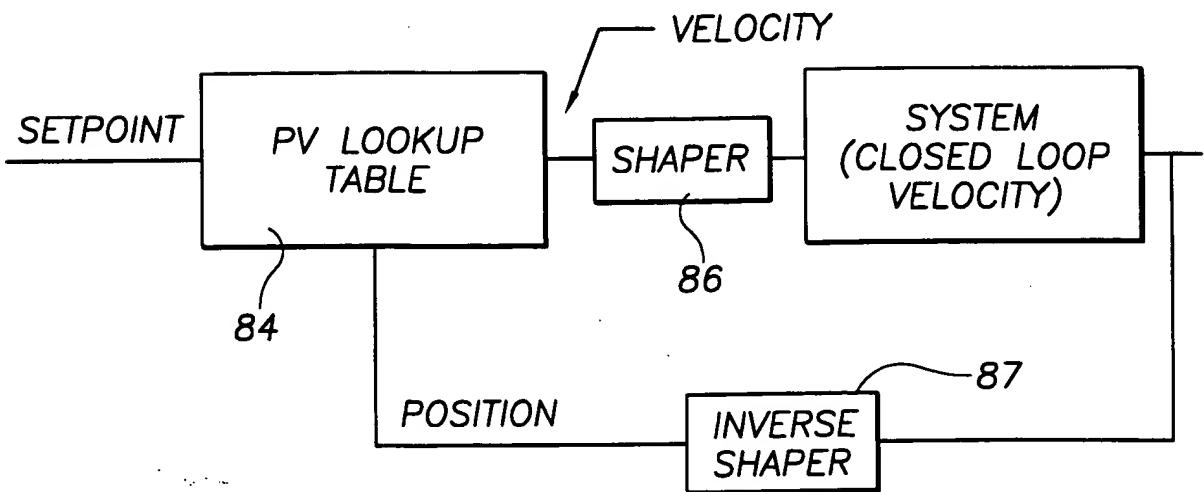


FIG.15

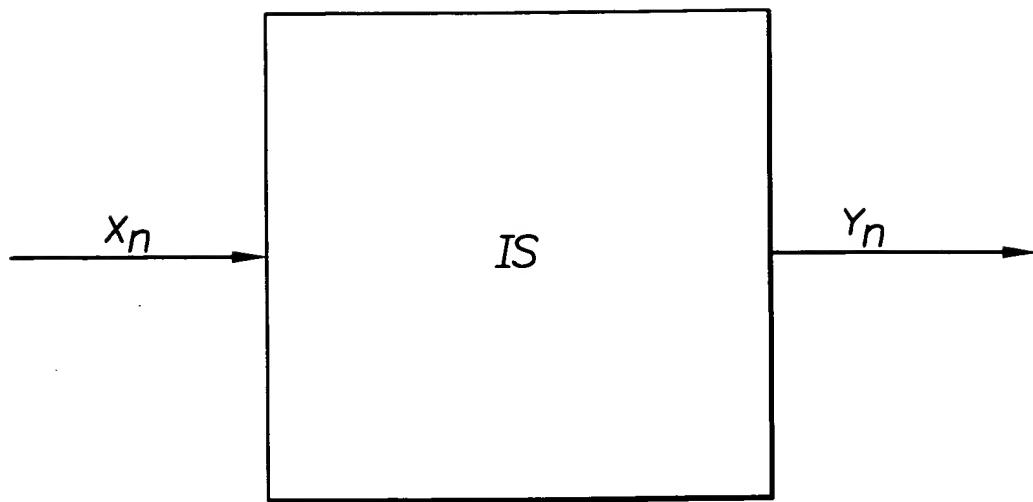


FIG.16

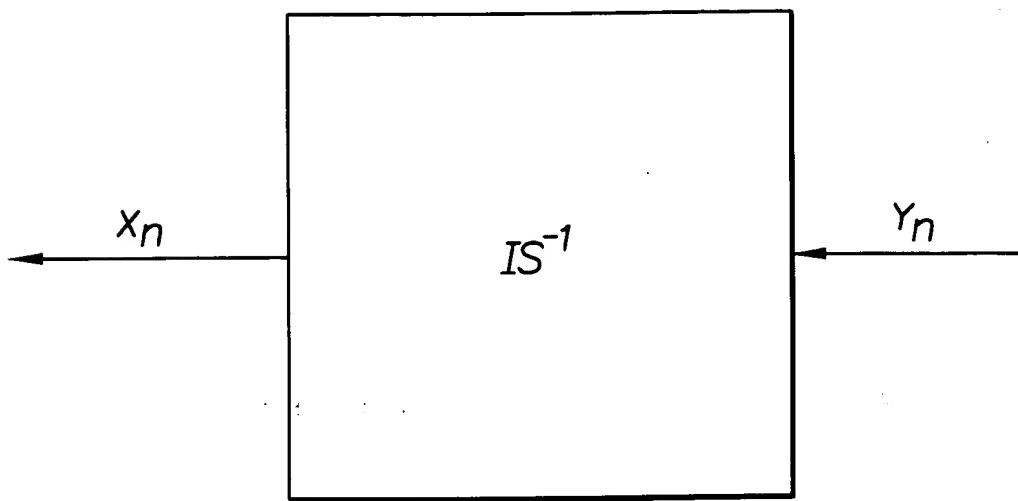


FIG.17

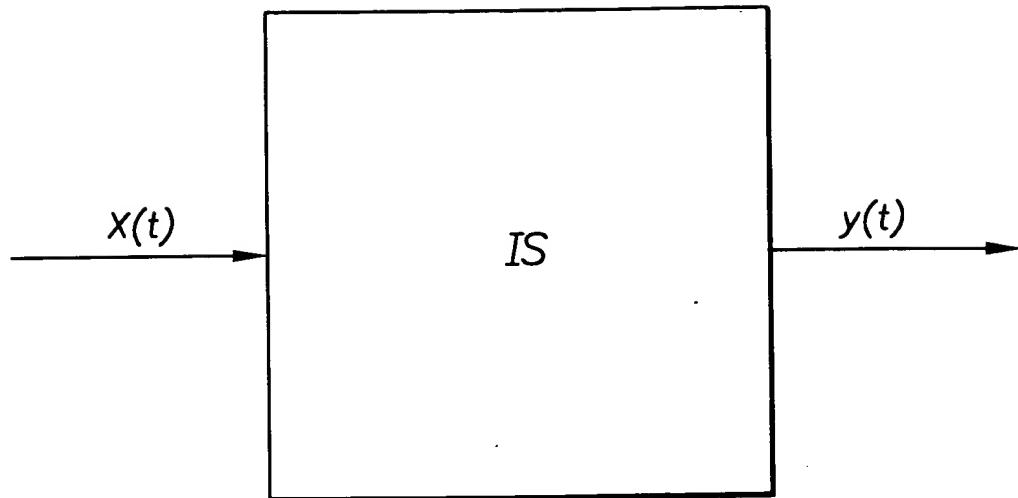


FIG18

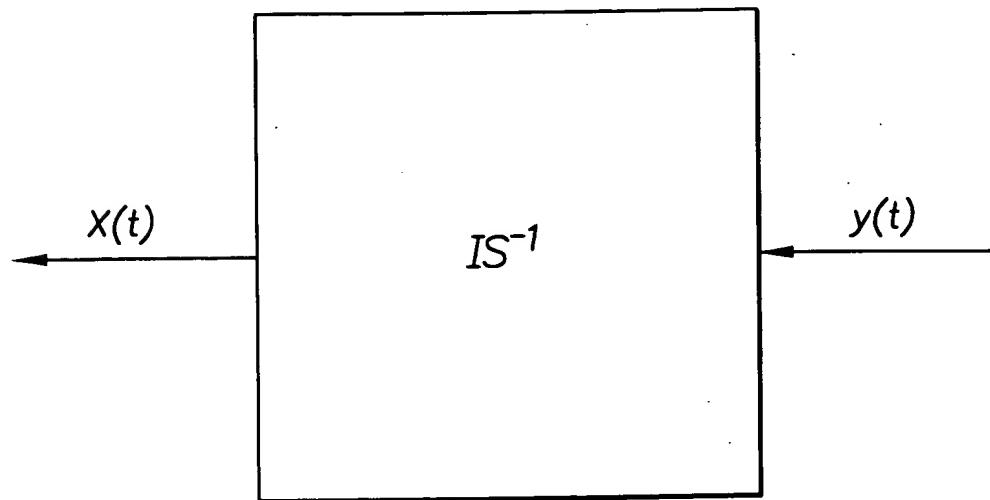


FIG.19

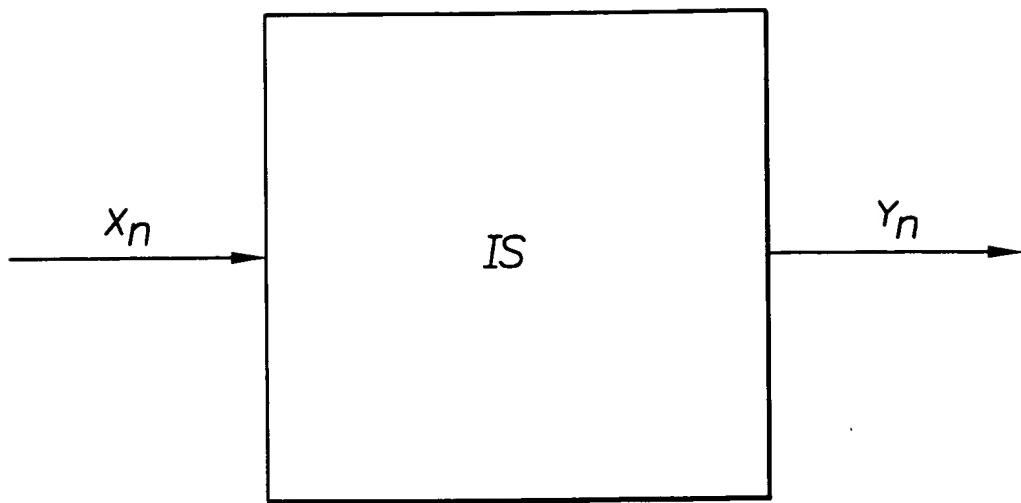


FIG20

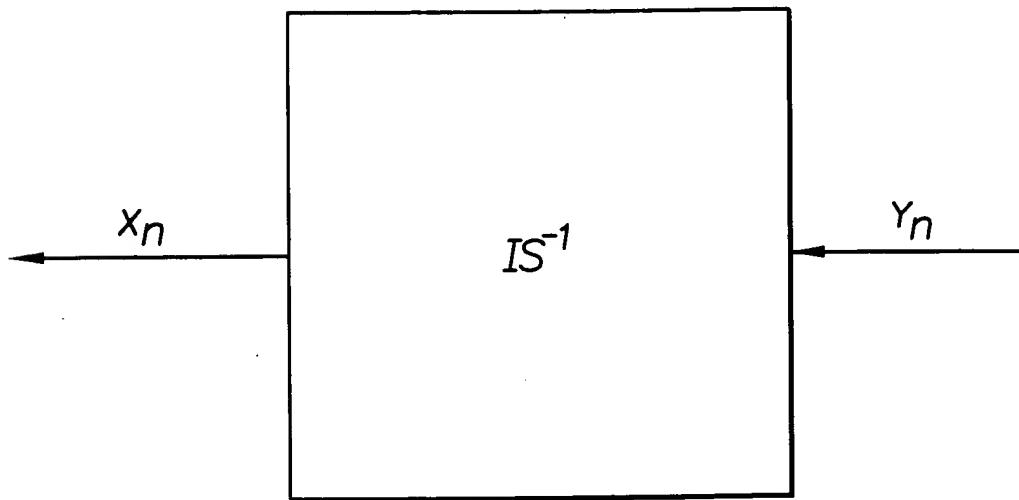


FIG. 21

PV CURVES FOR 100, 500,
AND 1000 TRACK MOVES

$\times 10^5$

VELOCITY COMMAND
(TRACKS/SEC)

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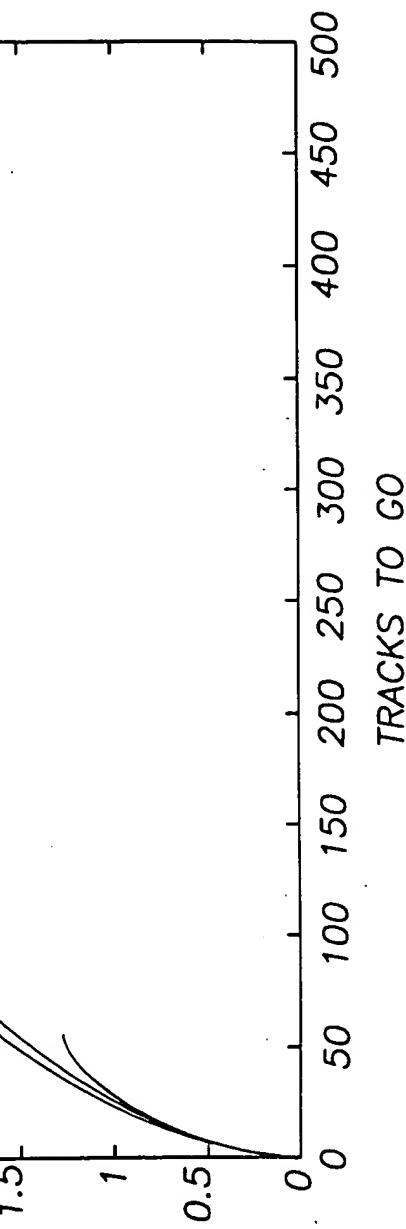


FIG. 22

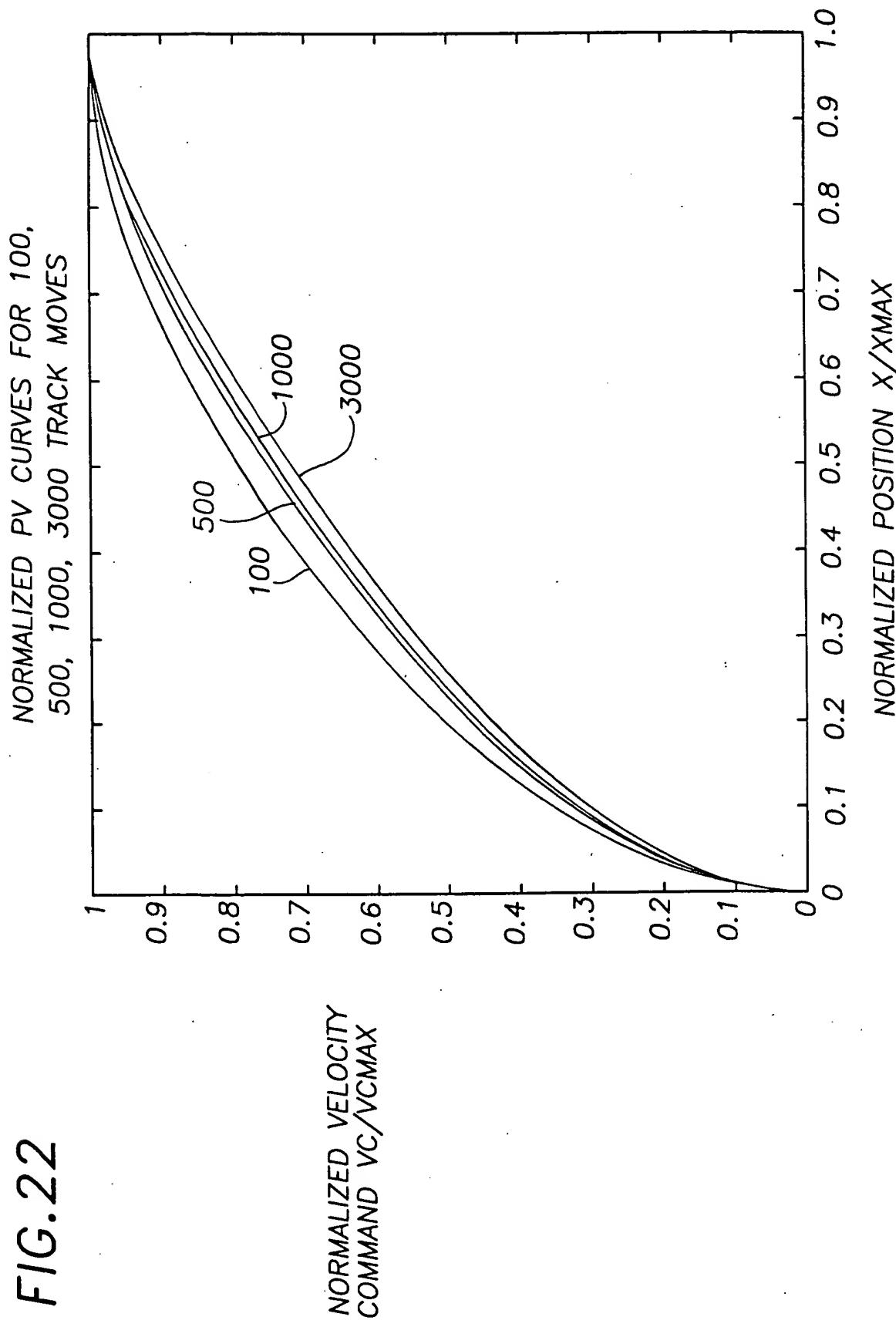
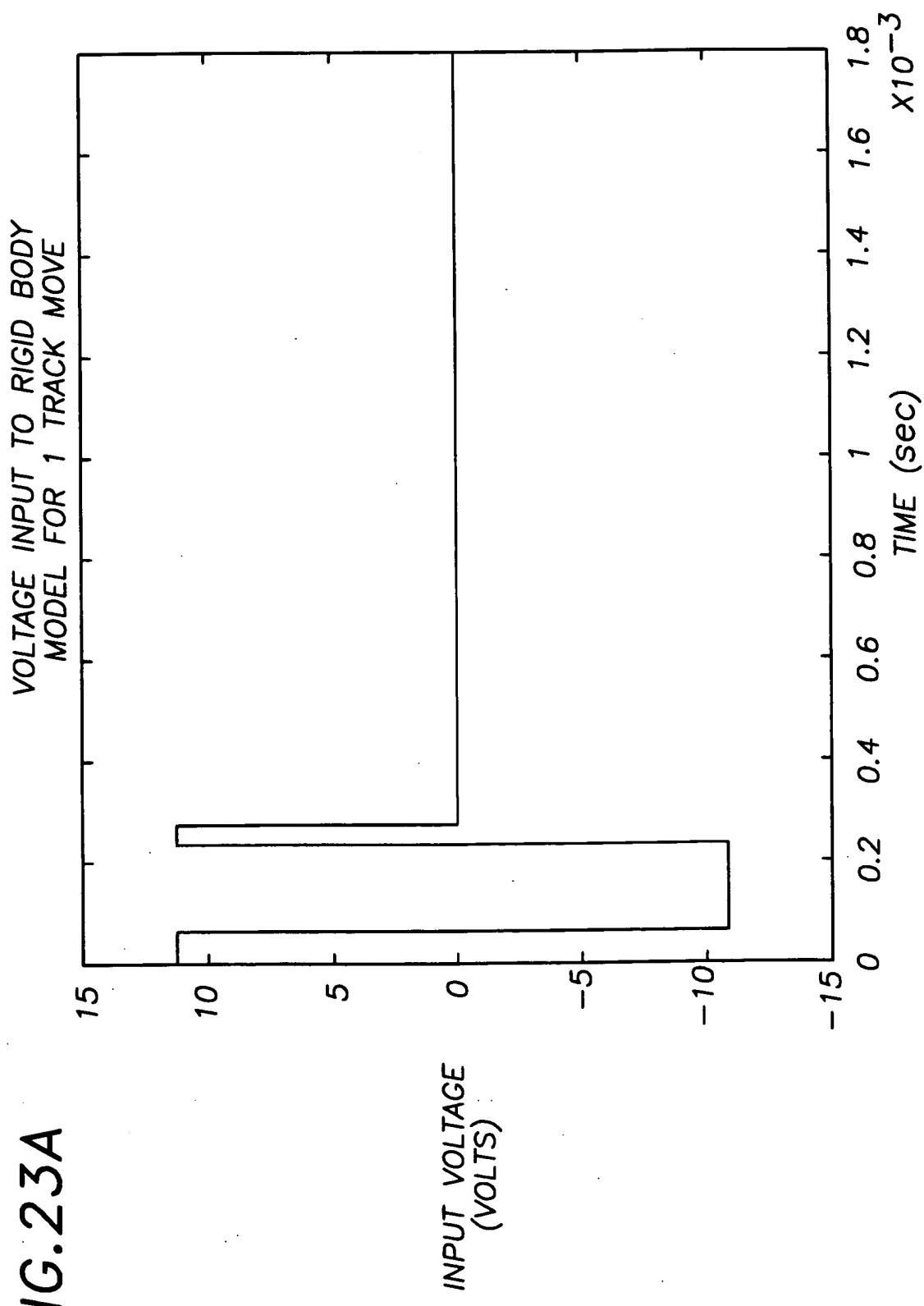


FIG. 23A



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VOLTAGE INPUT TO RIGID BODY
MODEL FOR 3000 TRACK MOVE

FIG. 23B

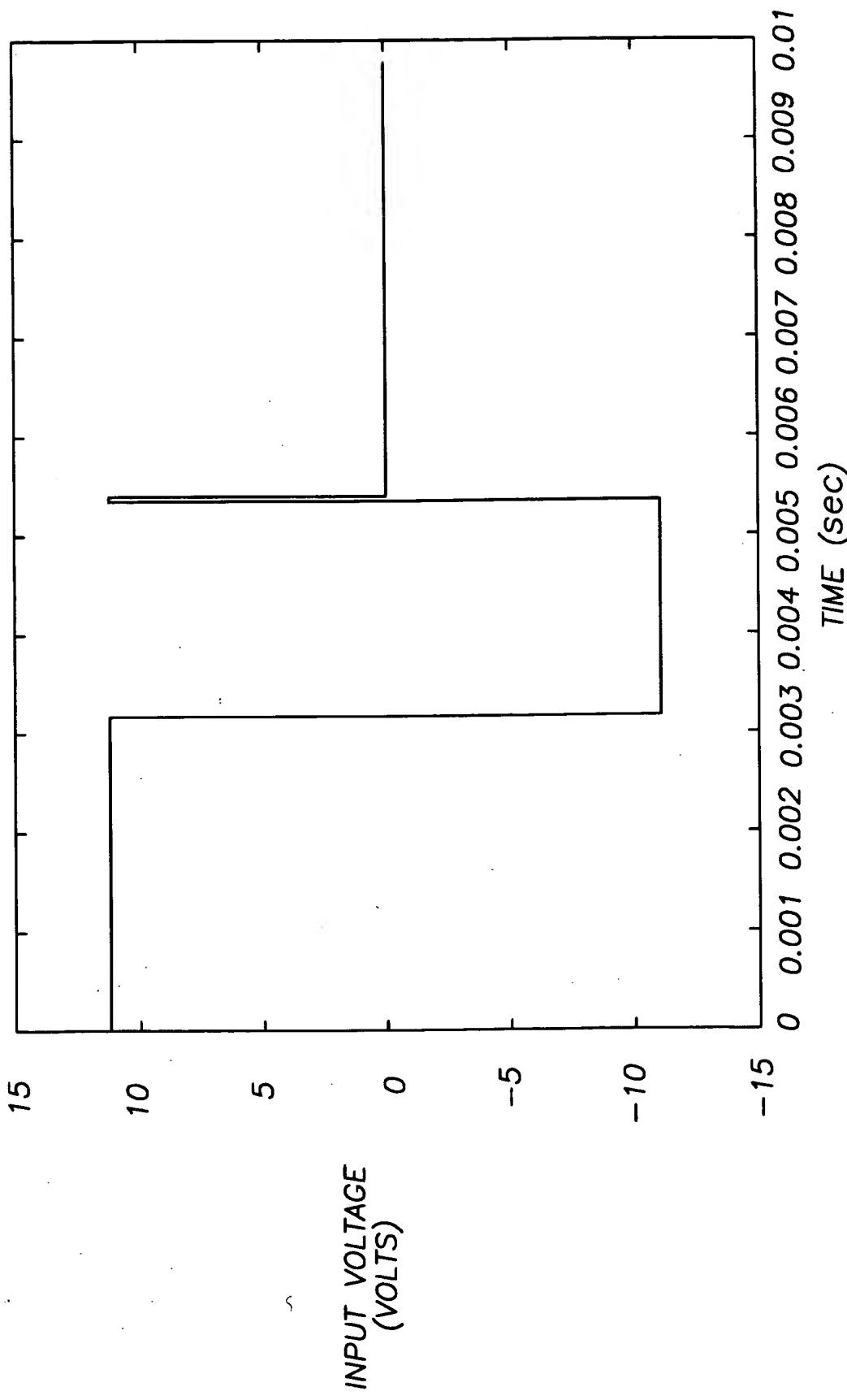


FIG.24

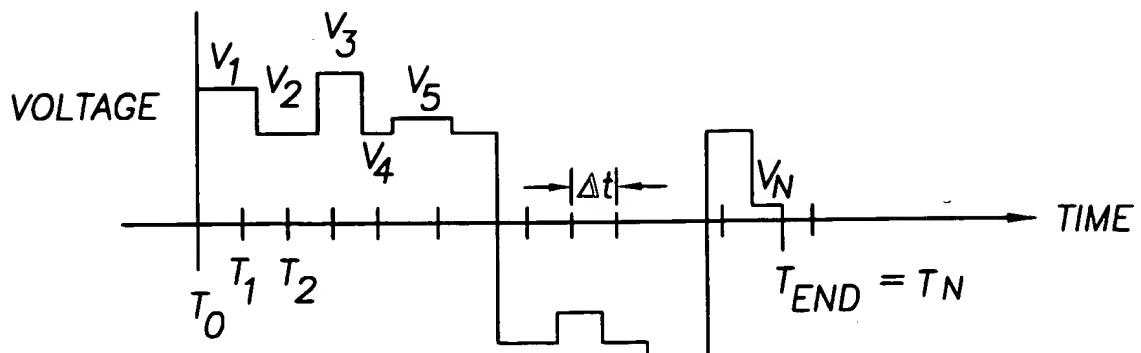


FIG.25

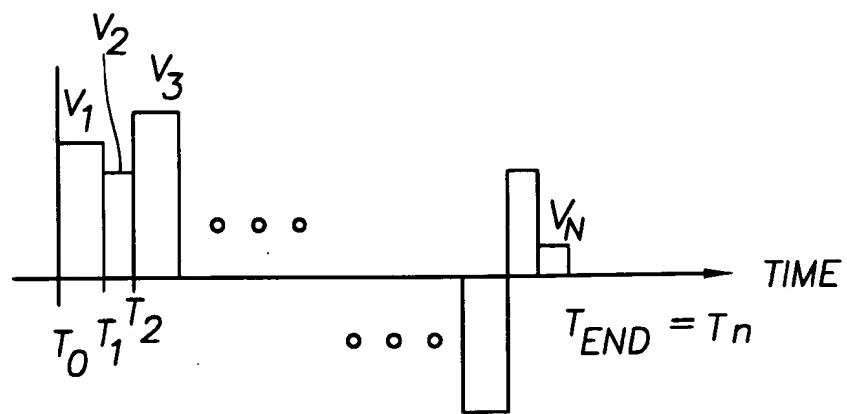


FIG.26

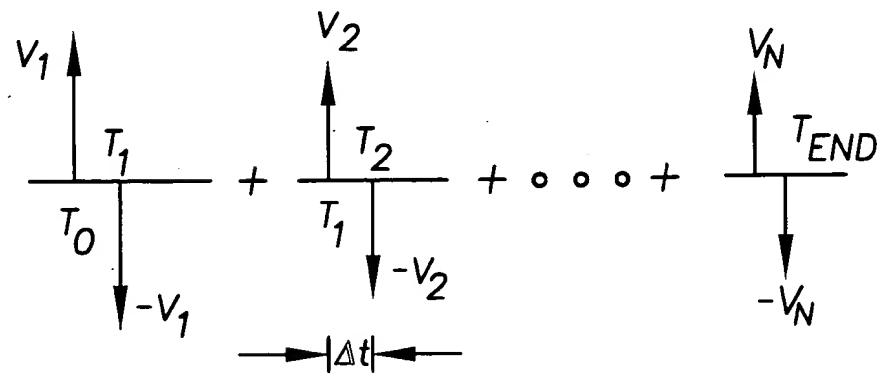


FIG.27

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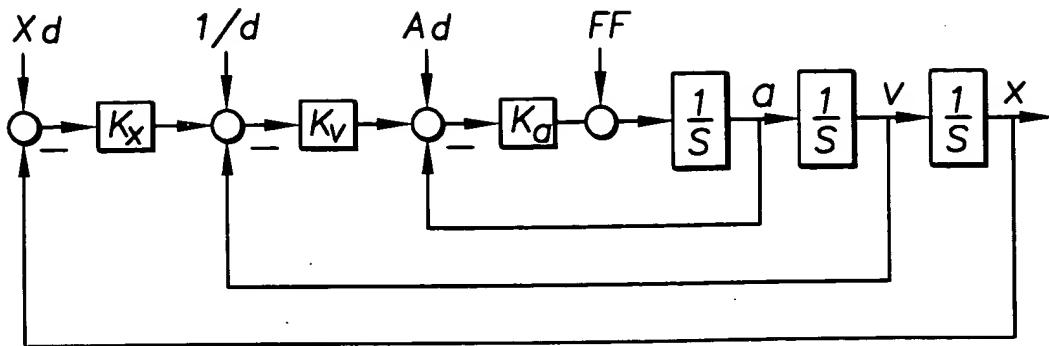
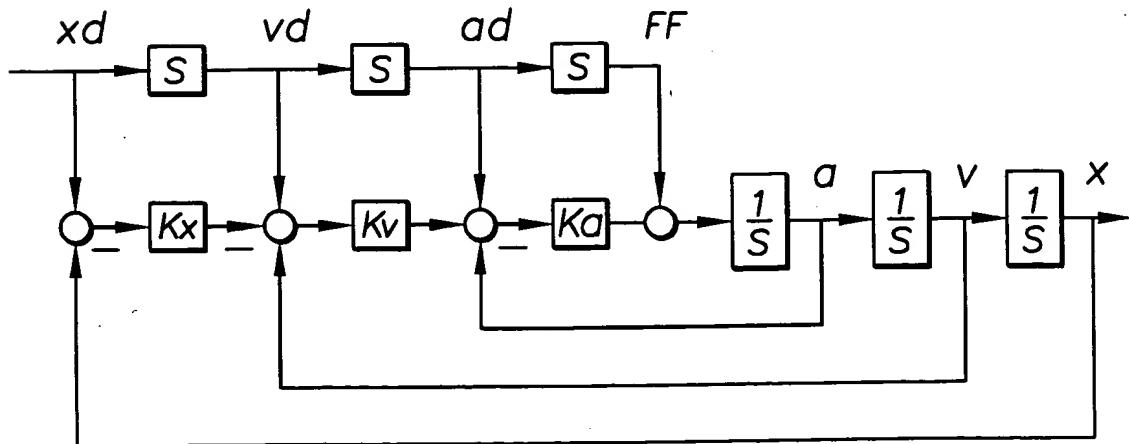


FIG.28



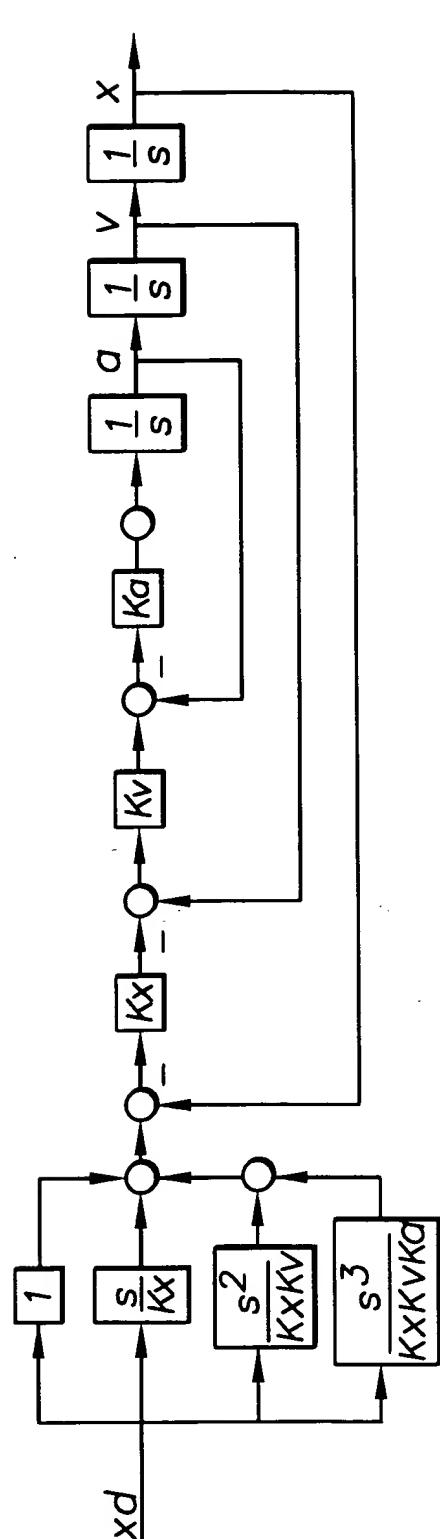


FIG. 29

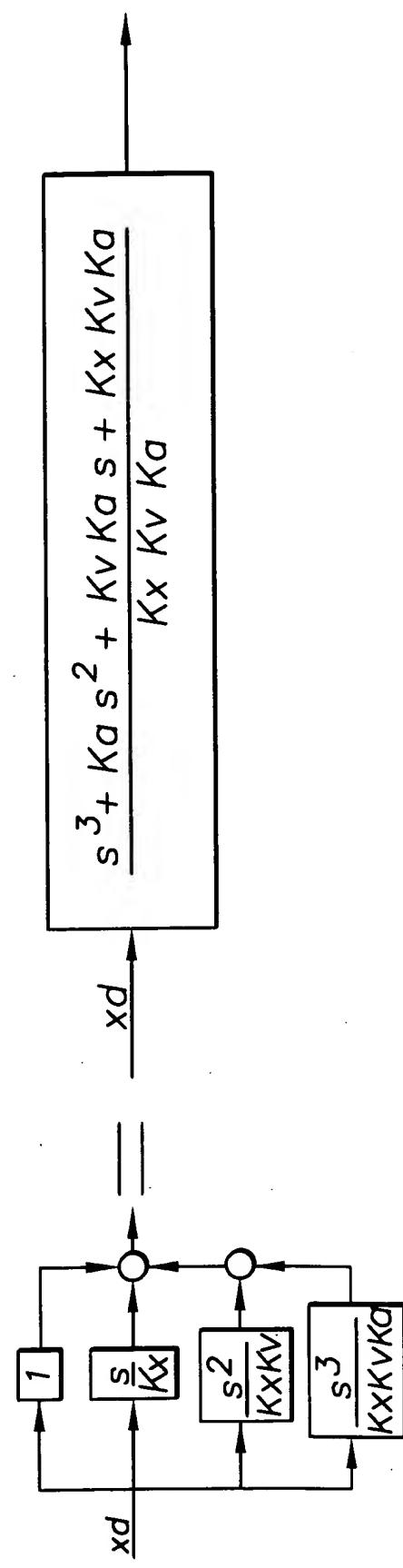


FIG. 30

FIG. 31

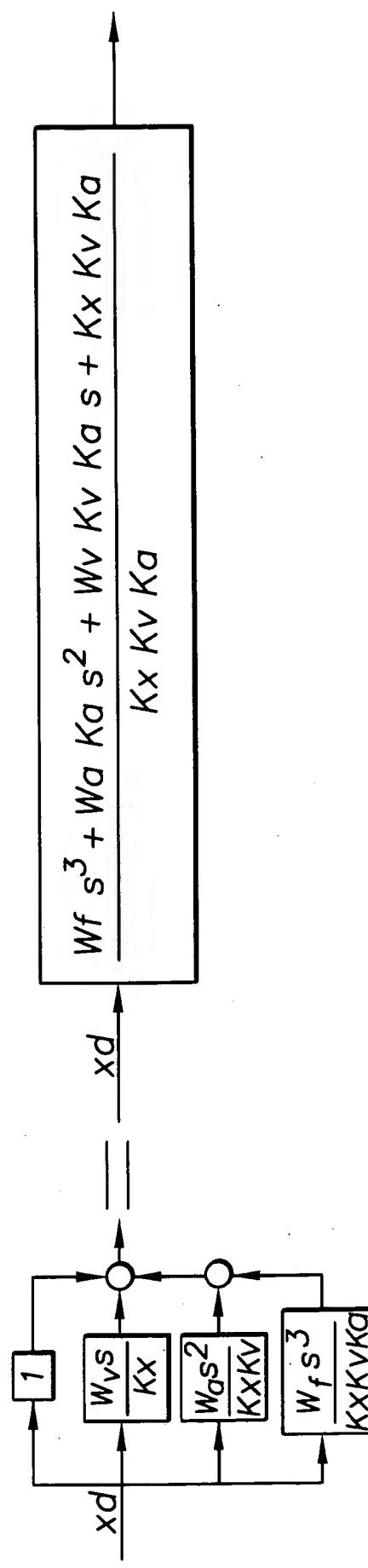


FIG. 32

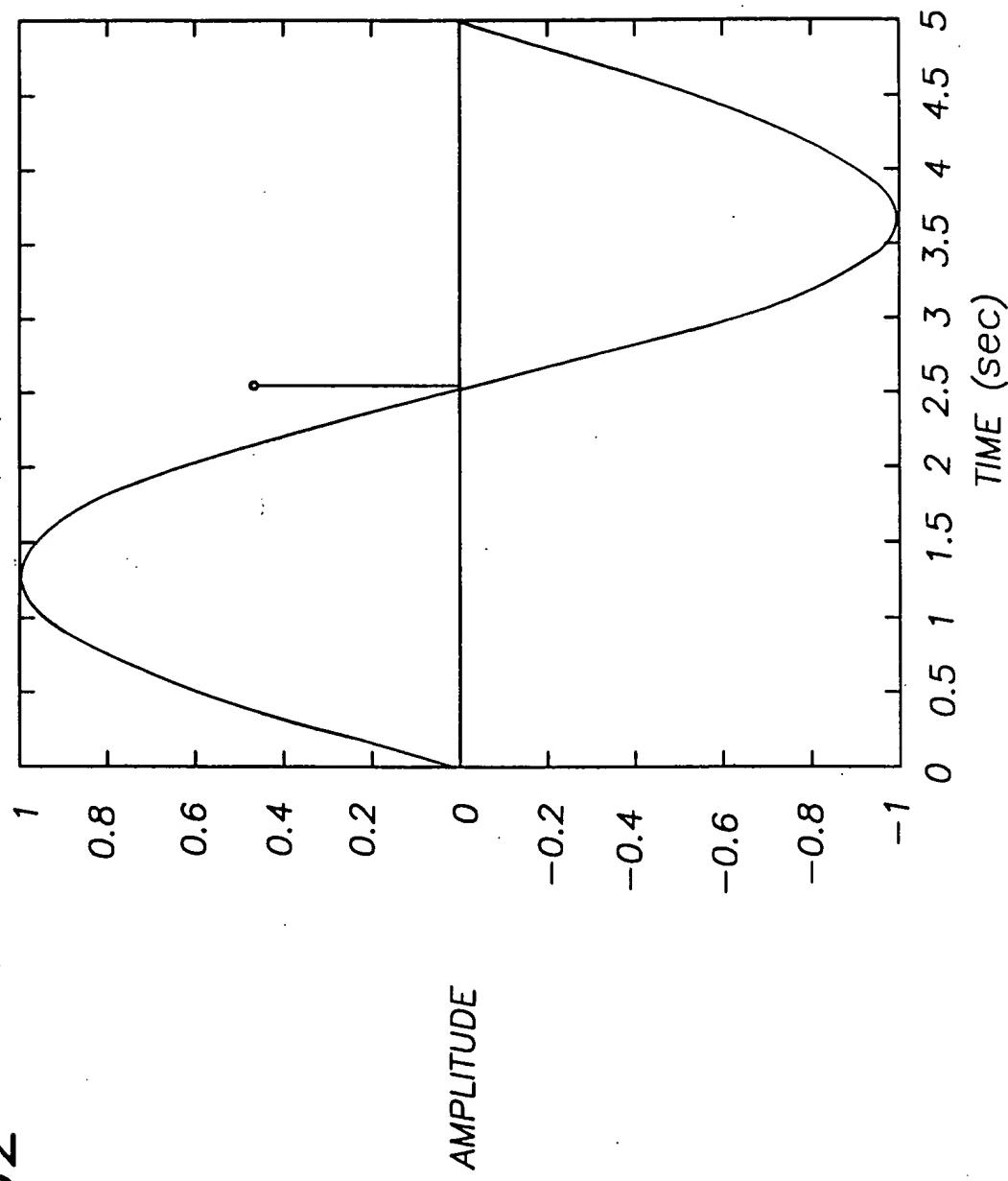


FIG.33

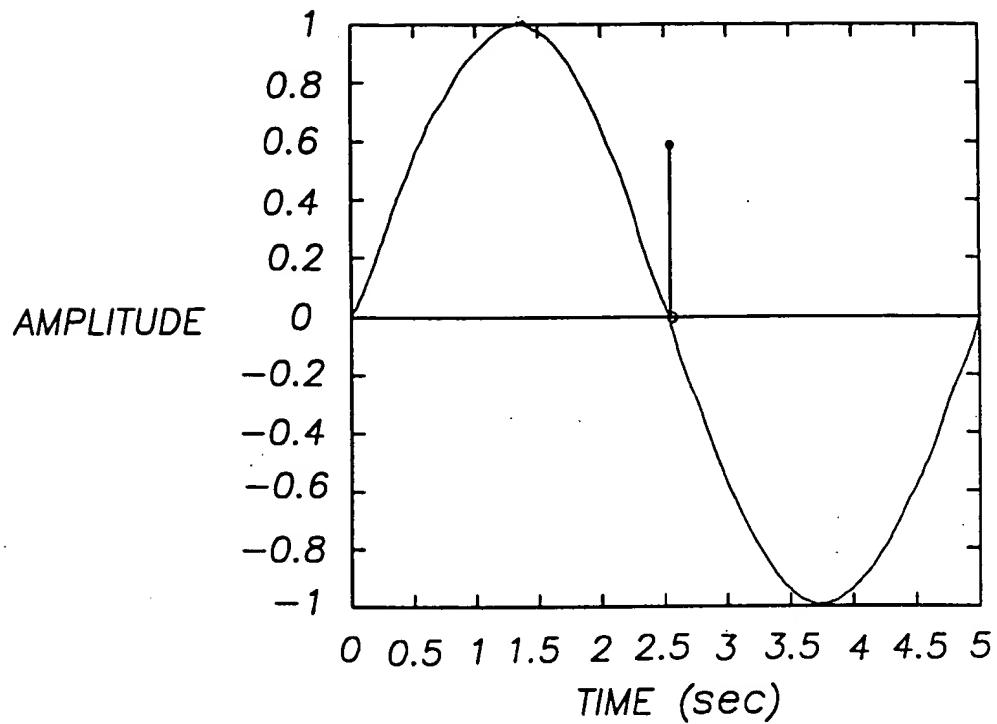


FIG.34

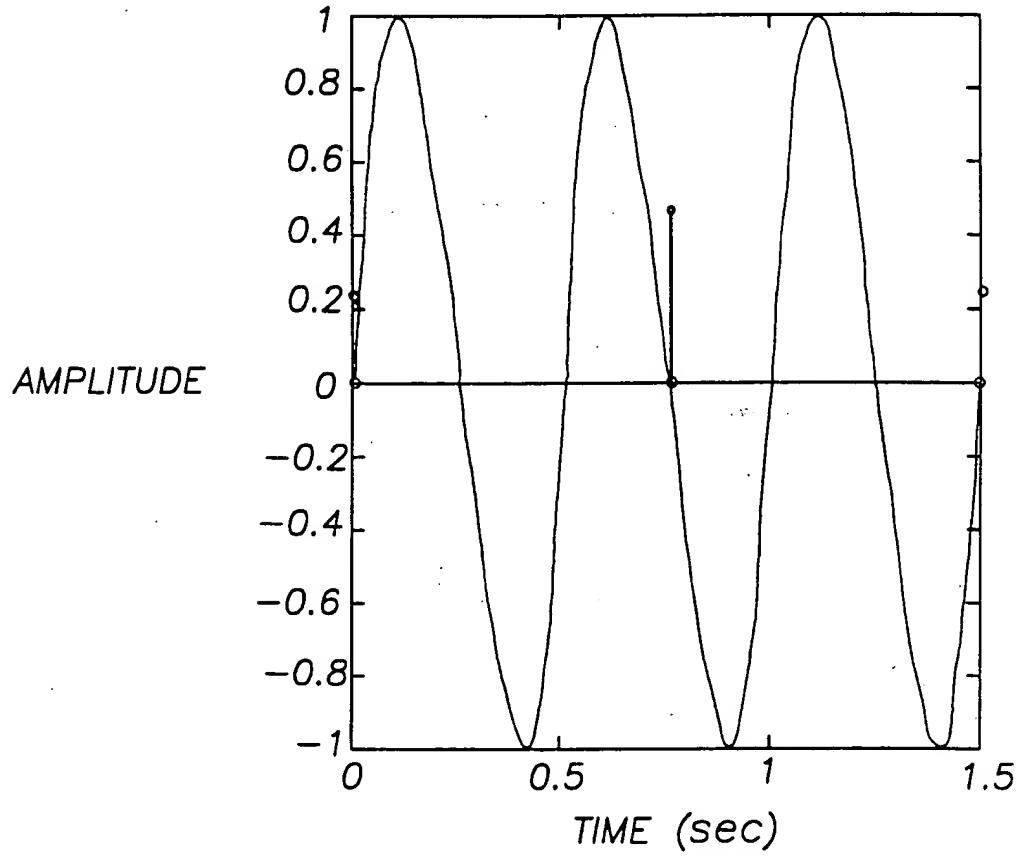


FIG.35

